SOBT Training Trends

The Submarine On Board Training Newsletter

PC Skills Make SOBT Software Effective Tools

Admiral's Corner

Ever watch a professional carpenter drive a nail with a hammer? Two, maybe three hits and the nailhead is below the surface of the wood, and there's none of those little 'smiles' in the wood like when I try it. Like most tools, you have to know how to use it. Interactive Courseware (ICW) is another tool that, if you know how to use it, can produce impressive results.

Consider the qualification software that has been in place since 1993 to support Ohio class SSBN submarines or the Los Angeles class SSN qualification ICW completed last year. These courses concisely organize the material from the Ship

System Manuals (SSM) helping new submariners learn their ship's systems and prepare for checkouts. New SSBN submariners now typically earn their dolphins in about one patrol and SSN sailors have reported a decrease from 12 months to as few as 8 months for qualification! The key, obviously, is ensuring our young submariners know how to use the tool we provide. As you integrate the new SOBT software into your qualification program, it is important to consider the basic computer skills possessed by your crew. Because computers are now available on all our ships and at shore commands, we too often assume our new submariners have these skills because they are part of the "computer generation," or our experienced submariners must have learned them in a previous assignment. While we, SOBT, are evaluating computer skills training programs and SUBSCOL is moving

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Suggested Distribution of Copies
CO, XO, and COB (1 copy) - SOBT Products Manager (1 copy)
This distribution of SOBT Training Trends will ensure that everyone will be aware of new SOBT products available for training needs.
Distribution Statement A: Approved for public release; distribution is unlimited.

ahead including SOBT products in BESS, there are some things you can do yourself. For example, assessing each newly reporting submariner's computer skills should become part of the ship's check in and indoctrination process. The tutorials program that is part of Windows and Windows based software is an effective tool for accomplishing this task. You might also consider making computer skills training part of your GMT or duty section training program. We offer a basic computer course as one of our SOBT products. Proficiency in computer skills for all of our submariners will become ever more critical as we populate our ship's with upgraded Local Area Networks, NIPRNET and SIPRNETS, as computer applications proliferate, and as we change the way in which we process and distribute information on a day to day basis. To help us prepare the force for these new challenges, send the SOBT Office your ideas on how to approach this important training area.

J.B. Padgett

Laptop Technical Support

SOBTDS Laptop Computers
Call the toll free technical support telephone number (800-828-6289) or in Norfolk area call (757-368-9242) 1-800-1700 (EST).
A new or refurbished laptop will be 2nd Day Air shipped to you. This requires a street address (no FPO) for UPS delivery.   Return the malfunctioning laptop in the reusable shipping container.   A postage paid sticker is included for you.

SNAP or ATIS Laptop Computers
Call JMCIS at 1 (800) 869-6413 for repair or technical support.
Ship the laptops to:
   Receiving Officer
   SPAWARSYSCEN CHARLESTON
   Det St Juliens Creek
   Bldg. 59, Magazine Road
   Portsmouth, VA 23702
SPAWAR does not repair cosmetic items or, laptops older than 36 months – the length of the maintenance agreement.

3Com, EtherLink III, LAN+33.6 and LAN+56 Modem PC Cards
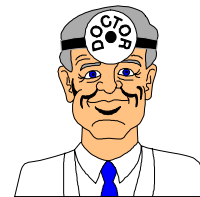For service call 3Com at 1 (800) 876-3266.
They will mail you a new unit and request that you return the defective device in their postage paid return envelope.

Laptop Support for Units in Bangor Washington
Commands in the BANGOR area can now obtain technical support

for all SOBTDS, SNAP, ATIS laptops and ICWTS Mini-Towers at the new NAVAL INTERMEDIATE MAINTENANCE FACILITY PACIFIC NORTHWEST
For service call NAVIMFACPACNORWEST at (360) 315-1743 and submit a 2K with each laptop or computer requiring service to at Shop 67L.

There are two important drawbacks in sending your SOBT laptops to NAVIMFACPACNORWEST for repair. The first is your ship will be charged for all parts and labor for the repairs. The second drawback is the length of time it takes to procure the parts and undertake the repairs, which will increase the time your ship is without a computer asset.

FROM THE GREASY KEYBOARD

Computer labs in all homeports

In the July '99 <u>ALL HANDS</u> magazine, a brief article titled "New Options for SS Quals" touts the recently opened SOBT lab in Pearl Harbor. The article goes on to describe why the lab was constructed and how submarine qualification will be enhanced. What isn't discussed is how convenient the lab will be for the submarines to use.

The lab was set up in the Squadron building, barely 50 feet from the waterfront. The hours of operation were not yet determined at the time the lab opened, but were anticipated to be very flexible so that every submarine could gain entry after normal working hours. Any person who is qualifying should be able to sit down at a computer and work through a SOBT product, in a classroom-like environment free of all typical submarine distractions, and then go to the boat to get the checkout.

Now everyone who isn't stationed in Pearl Harbor should be asking themselves, "When is my homeport going to get a computer lab?" If you're on a submarine in Kings Bay or in Bangor, your labs were established in the off-crew buildings late last year. In Bangor, ETC Dan McGuire is the point-of –contact, and the lab is open 0600-2000. A sign-up list is available for the Chief of the Boat who wants to assign extra study for his personnel who are behind in their qualifications and for "hard chargers" who would like to get ahead. There is also an arrangement of six computers networked together that will allow for team training. FTC Charlie Brown in Kings Bay gave each submarine off-crew office (look in the Weapons Office) a computer for SOBT use, and his networked computers are set up in the PTEP classroom. Hours of operation for those computers are up to the individual commands, or in accordance with the working hours of the off-crew building.

The SOBT Office is helping to establish a lab in Norfolk at the SSSU. Petty Officer Eric Ouzts is in charge of that lab, and as of this printing, no hours of operation had been established because the final location of the lab was still in question.

Soon to follow will be facilities in San Diego and Groton, with MMCM Mark Metcalf the point of contact for the San Diego lab. The Groton lab project is still in its infancy because of space requirements. These computer labs will provide much needed flexibility for ships that have a large number of personnel in the qualification process, or the individual who needs to qualify but wants to get off the submarine for a few hours. For specific questions concerning the computer lab in your homeport, your point-of-contact is MMC(SS) Shawn W. Irish.

REPAIR PARTS PETTY OFFICER

CNET has approved the NAVSUBTRACENPAC Training Project Plan, which cancels the Submarine Repair Parts Petty Officer SNAP II course (A-551-0095). The RPPO Indoctrination Course was designed to provide basic knowledge for Submarine RPPOs to perform the automated procedures required on SNAP II. The Repair Parts Petty Officer, Interactive Courseware (CBI-GT-9891) is designed to replace the A-551-0095 course. Both TYCOMs have approved the use of the courseware in initial and refresher training for Repair Parts Petty Officers.

SOBT HI-LITES

To all SOBT Product Managers: In my July 98 Newsletter article, I explained the procedure for ordering secret material. I am still receiving phone calls, faxes, e-mails, and SOBT Feedback reports requesting SOBT Secret Material. If you need secret material, place a copy of the destruction report (OPNAV 5511/12) in your request, or specify the reason you need a second copy. If you have any questions regarding a particular piece of secret material on-board, please contact your secret custodian. If for any reason the secret custodian cannot find it, please give us a call and we will track the secret material in our distribution database. Sometimes the secret material is sitting in the Squadrons Secret Custodian safe. SOBT Product Managers, you need to ask your squadrons if you received any packages from the SOBT Office.

In the July 1998 Newsletter article, I requested the name, rank, command, and phone numbers for each SOBT Product Manager. Several names are still needed. Please forward your information as soon as possible to help us update our database.

Finally, in the April 1999

Newsletter article, I asked for shore commands to send the SOBT Office feedback on what type of video format they need for training (VHS or 8mm). We need your feedback in this matter as soon as possible. Thank you for your support, keep up the good work, and always remember to promote yourself and the SOBT Program onboard.

Your point of contact is Mr. Ralph Marquez.

Strategic Weapons Systems (SWS)

C4/D5 Missile Tube Heating and Cooling (ICW-SS003)
Scheduled for delivery in July 1999. This interactive course allows for realistic simulation of Missile Heating and Cooling (MHC) components. The course is designed for the C4 and D5 Missile Technicians. Additionally, the Nuclear Electronic Technicians can also benefit by the section covering proportional controllers in 5SB and 6SB. This course will present a foundation of understanding of the MHC system

and operation. Detailed instruction is provided on the controller to heaters interface, proportional controllers functional theory and a section on each C-4: SMP-6656 and D5: SMP-6460, verifying proper operation of the missile tube heating and cooling system water heater.

Trident I 28 VDC Ground Fault Troubleshooting, Version 2 (ICW-F004)
Released in June. This is a re-issue of the Trident I 28 VDC Ground Fault Troubleshooting computer based instruction originally issued on 3.5" floppy disks. The CD-ROM is designed to provide an overview of the 28 VDC power distribution system used in the Trident I MK 98 MOD 0 Fire Control System. It also includes an explanation of ground faults, relay charts and allows the trainee to troubleshoot 28 VDC ground faults within the courseware.

Your point of contact is Mr. Paul Knieser.

COMBAT SYSTEMS

ADCAP TRAINING TIPS

Please be aware folks, all ADCAP / SOBT training material is either CONFIDENTIAL or SECRET. ALL ADCAP POST-LAUNCH TRAINER (APLT) VERSIONS ARE SECRET. Additionally, when a new SOBT product is about to be promulgated you will learn about distro dates in this newsletter.

Recently SOBT has been receiving material requests for ADCAP products that have been distro'ed in the past, and when the command is reminded that it is SECRET, and to search their secret library or custody records, it is found. A quick check will save both you the requester, and us the provider, valuable time.

Frequently SOBT managers will announce training products that are in development and near distro. This sometimes generates premature material requests via the feedback system by some commands. We are absolutely thrilled by this demand for SOBT stuff, but PLEASE ASSUME YOU ARE ON NORMAL SOBT DISTRO or the product is on board when it is in the "Products Distro'ed" section of this newsletter.

ADCAP / TORPEDO TRAINING WORKING GROUP, *AND MORE*

SOBT / NUWC / DEVRON 12 are going to hold regularly scheduled round table ADCAP training meetings. These will most likely be held in Groton at the sub base. To optimize the transfer of vital ADCAP information (in all areas) we would like to include the TRE teams, fleet FT/MM (TM) LPO's, Sub School LPO's, and PMS 404U. These meetings will be called "Torpedo Training Working Group" and held bi-annually prior to the Combat Systems Working Group Meetings.   More information on this will be forthcoming via e-mail, correspondence, and this newsletter. It never, ever ceases to amaze me the SOBT POC, how much valuable weapons information gets exchanged at video or ICW kick-off meetings.

POC Joe Valchar

Trident SOBT Delivery System Upgrade

Now that the Liaison Action Request (LAR) was approved we will begin delivering two new Gateway E-3200 computers to each Trident submarine starting in August. The Gateway computers will replace the aging ICWTS mini towers. The Gateway E-3200 has an Intel 350 MHz Pentium II processor with 128MB of RAM, an 8.1GB Hard Drive, and a 32X-speed CD-ROM drive. The primary use for this computer will be for hosting the Trident Basic Enlisted Submarine Qualification Program, which is currently being revised and updated to run on the new system. The computers will be delivered with Windows 95 installed, a new Gateway EV700 monitor with a 15.9 inch viewable screen, and an APC Shipboard UPS 700X93 (Uninterruptable Power Supply) with four outlets capable of handling both new Gateway systems and monitors.

Your point of contact is Mr. Paul Knieser

Trident Basic Enlisted Submarine Qualification Program

The Trident qualification program upgrade nears completion. The final reviews of qualification Block I through Block V are now complete. Your inputs were beneficial for the developer in making final technical corrections to the courseware. We are now busy assembling the first five blocks for distribution to the fleet. Shipment to the fleet is scheduled to begin in August. Each CD will contain the same ship systems, and will be labeled with the same block number as the qual card, as shown here:

Block I SEA WATER SYSTEMS
Trim, Main Drain, Missile Compensation, Hovering, Tanks and Compartments.

Block II AIR SYSTEMS
High Pressure Air, Service Air and Main Ballast Tank Blow

Block III HYDRAULIC SYSTEMS
Ship Service Hydraulics, Steering and Diving Hydraulics, External Hydraulics, Emergency Flood Control and Stern Diving Hydraulics.

Block IV ATMOSPHERE SYSTEMS
Ventilation, O2 Generators, CO-H2 Burners, Nitrogen, Oxygen and Scrubbers.

Block V ELECTRICAL SYSTEMS
Battery & DC Distribution, SSTG, SSMG & 400 VAC Distribution, Lighting & 120 VAC Distribution, 400 Hz Distribution, Ship Control and IC Communications.

Blocks VI through IX are in the final stage of development. After the subject mater experts finish reviewing the last four blocks, (on 4 CDs) the CDs will be finalized for distribution to the fleet.

Block VI BASIC POWER PLANT
Basic Primary Power Plant, 9Electronics & Auxiliary Fresh Water, Distilling Plants, Chilled Water and Air Conditioning Plant.

Block VII MISCELLANEOUS SYSTEMS
Sanitary & Plumbing, Diesel & Snorkel, Trash disposal Equipment, Refrigeration, Topside, Bridge, Masts and Antennas.

Block VIIIa BASIC COMBAT SYSTEMS pt1
3-inch & 5-inch Launchers, Launcher & Missile Tubes Central Computer Complex and Sonar.

Block VIIIb BASIC COMBAT SYSTEMS pt2
Torpedo Fire Control, Torpedo Tubes and Missile Fire Control.

Block IX BASIC OPS SYSTEMS
Navigation, Radar, ESM and Radio.

Your point of contact is Mr. Paul Knieser.
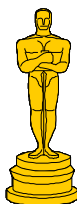

COMMENTS, QUESTIONS?

We at SOBT hope everyone is enjoying the summer season. Training never takes a vacation, though at times it may become dull and listless. This is where you, the fleet, can help. Your comments and ideas are always welcome and in most areas, required to enable SOBT to produce and provide you with the most up to date and viable training products. As you use the products keep in mind that there are ways for you to help make them better. Any comments or questions are welcome and appreciated. Feel free to call, e-mail or submit feedbacks. The fleet's comments and inputs from all levels are an important part of SOBT's success.

FEEDBACK FORUM

Thank you very much if you are among those who have taken time out of their busy day to send us constructive criticism! We have received many feedback reports during the past quarter that were worthy of consideration for the prestigious feedback of the quarter award. After due consideration, detailed analysis, and a little bit of arbitrary decision making, we have a winner. The winner of the prestigious SOBT feedback of the quarter award for the past quarter (April - June) is

PURDUE UNIVERSITY NAVAL ROTC

for the following detailed comments on the SOBT Rules of the Nautical Road CD ROM:

For the spring semester of 1999, I used SOBT Rules Of The Nautical Road CD-ROM (surface version) to teach rules of the road to Navy ROTC students. Overall I feel this is a very valuable product, but some of its limitations prevent it from being a stand-alone source of instruction for rules of the road. Positive aspects: great graphics and sound effects. Realistic setting/ motion and different visual perspectives. Covers every aspect of the Rules of the Road book COMDTINST M16672.2C. Problems: moves too quickly for material to be absorbed. It covers everything in the book just once and does not always indicate how they interrelate.

Does not differentiate between the more important/common material and minutia. Information sometimes comes off as disjointed. Tests delve into minutia. Most drills/exercises test only one thing - turn to starboard early. Glances over important information-does not print it on the screen. (ex. Length of ship required to have a second masthead). If judgment decision is to be tested, they must be taught. Students have no experience. Suggestions for improvement: (general) provide a help function or library function to look-up/review terms, lights, sound, rules, etc. (#1 improvement needed). Emphasize more common/ important information. Indicate "inland" or "international" on the screen, instead of just a quick audio mention. Emphasize differences between inland and international rules. (ex. Towing lights) provide side by side comparisons. Like the book is set up, but with graphics. When there is a lot of text, use bold, underlined, or multicolored text to identify the main headings. Sometimes it is just a screen of fine print with the main point unclear. Have several drill and practice sessions, more exercises, or a library of graphics that permit the student to identify light configurations, day shapes, and sound signals. Lights and shapes: review important definitions/terms as they are used in "later" chapters. (Ex. Not under command). Show the sidelights when they are described. Show summary of lights required for different lengths/situations in chart or table form. Associated graphics within the chart would also help to reinforce. Show all light configurations from standard views

(front, aft, side) initially. It's hard to see/learn the differences when everything is presented differently. Show the visual of the lights, as they are audibly described. It seems sometimes that the CD-ROM is a frame off. Provide more summarized review. Not more review questions, but charts, graphs, or other consolidated summaries that show important concepts or related topics together. (Ex. Lights for ships of different sizes, or fishing, trawling, pilot, and police all shown together). (Sound and lights) fog signals for underway/making way and underway/not making way were omitted. Summarize the signals in graph form for comparison. (Steering and sailing rules) more emphasis on vessel hierarchy. Suggestions to make program (or a separate version) better for classroom instruction: include the ability to produce standardized tests. In other words, when a test is generated, give the instructor the ability to save the set of questions so that different students or sections can all take an identical test. Provide the answers to the questions, at least to the instructor for grading and debriefing the students. Only record the first answer to the section review questions. In order to grade students on their knowledge as they progress through the CD-ROM the instructor can look at their student disk and grade them on their review question performance. However, the students only have to go "back" one frame after answering a question wrong and change the answer to the correct one. Modify the program so that it can be run on a network. A good start to this is

allowing the program to be installed to any choice of drive. At present it solely defaults to the c: drive. I would be happy to review any improvement to the program.

❖ **EDITOR'S NOTE:** A big BZ goes out to NROTC Purdue University for showing such a great interest in providing the fleet with the most correct and up to date training products.

Thanks again for your valuable input and keep up the good work!
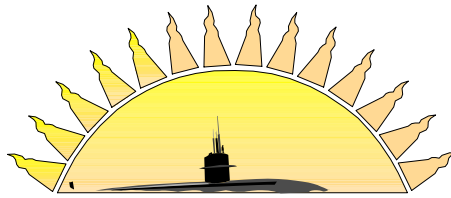
SOBT Products ~~Deleted~~ This Quarter

1. SORAT Sonar Exercise exercise guides and cassette tapes.

SOBT Products Distributed This Quarter

1. CAMS MK I Operator Refresher Training (ICW-N-98117).

ON THE HORIZON

VIDEOCASSETTES (8mm & VHS)

Anticipated Delivery Date: September 1, 1999

SOBT Preparation to Deploy - Single and Submerged (aka "Single and Submerged") SVT-GT-97140 (806366) 29:00

Submarine Launched Mobile Mine (SLMM) Fire Control System (FCS), MK 122, MOD 0 Description, Installation, Operation, and Maintenance (U) SVT-W-97059 (806355) 32:00

Battle Group Communications - Submarine (U) (SVT-C-9877) (806236) 27:00 CONFIDENTIAL

Submarine Satellite Communications Overview (U) (SVT-C-9892) (806360) 33:OO

Submarine Communications Planning (U) (SVT-C-9883) (806362) 33:00 CONFIDENTIAL

Submarine Bottom Contour Navigation (U) (SVT-S-0777) (806351) 23:00 SECRET

Submarine Advanced Tactical Use of the Ocean Environment (U) (SVT-S-9783) (806236) 37:00 CONFIDENTIAL

ESGN Data Interpretation/ Evaluation (U) (SVT-N-9890) (806246) 22:30 CONFIDENTIAL

Submarine VLS Operations (U) (SVT-W-9858) (806359) 30:00 CONFIDENTIAL

Submarine VLF Frequency Shift Keying and STANAG 5030 Procedures (U) (SVT-C-9851) (806245) 19:00 CONFIDENTIAL

Submarine EHF Communications System Overview (U) (SVT-C-9852) (806241) 35:00

Submarine VLF(A) Tracking (U) (SVT-S-9632) (806184) 33:30 SECRET

EHF Antenna Installation/Removal on the Submarine (U) (SVT-C-9895) (806368) 28:24

Submarine EHF Antenna Installation/Removal in the Optical Shop (U) (SVT-C-9896) (806369) 22:06

Submarine Anti-Submarine Warfare (ASW) Section Tracking (U) (SVT-T-9638) (806190) 49:00 SECRET

ICW CD-ROMs

Anticipated Delivery Date: September 1, 1999

Collisions Interactive Courseware (CBI-ID-96074) CONFIDENTIAL

Groundings Interactive Courseware (CBI-ID-96075) CONFIDENTIAL

Submarine Force Collisions and Groundings Briefs (Change 4) PowerPoint Presentation (CBI-ID-99011) CONFIDENTIAL

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